

WHAT IS CLAIMED IS:

1. A vacuum cleaning tool comprising:

a housing (3) having a turbine chamber (6) and a working chamber (13);

the housing (3) having a bottom plate (14) with a suction slot (16) extending transversely to a working direction (10) of the vacuum cleaning tool, wherein a suction airflow (7) generated by a vacuum cleaning device connected to the vacuum cleaning tool enters the working chamber (13) via the suction slot (16);

a first flow connection (20) and a second flow connection (30) provided between the working chamber (13) and the turbine chamber (6) allowing the suction airflow (7) to enter the turbine chamber (6);

an air turbine (8) arranged in the turbine chamber (6) and rotatably driven about an axis of rotation (9) by the suction airflow (7);

a cleaning tool (12) rotatably supported in the working chamber (13) and driven by the air turbine (8);

the housing (3) having an outlet opening (21) allowing the suction airflow (7) to exit the turbine chamber (6);

wherein the first flow connection (20) is located on a first side of an imaginary plane (22) and the second flow connection (30) is located on a second side of the imaginary plane (22), wherein the imaginary plane (22) is defined by the axis of rotation (9) of the air turbine (8) and a center (23) of the outlet opening (21);

and

wherein a cross-section of one of the first and second flow connections (20, 30) is adjustable.

2. The vacuum cleaning tool according to claim 1, wherein the cross-section of the second flow connection (30) is adjustable.

3. The vacuum cleaning tool according to claim 2, wherein the cross-section of the first flow connection (20) is fixed.

4. The vacuum cleaning tool according to claim 1, wherein a first partial flow (7a) of the suction airflow (7) entering via the first flow connection (20) drives the air turbine (8) and wherein a second partial flow (7b) of the suction airflow (7) entering via the second flow connection (30) brakes the air turbine (8).

5. The vacuum cleaning tool according to claim 1, wherein the housing (3) has a partition (19) separating the working chamber (13) and the turbine chamber (6) from one another, wherein the first and second flow connections (20, 30) are provided in the partition (19).

6. The vacuum cleaning tool according to claim 5, wherein the second flow connection (30) comprises an adjustable closure (31).

7. The vacuum cleaning tool according to claim 6, wherein the closure (31) is a slide.

8. The vacuum cleaning tool according to claim 6, wherein the closure (31) is a rotary slide (33).

9. The vacuum cleaning tool according to claim 6, wherein the cross-section of the second flow connection (30) is substantially semi-circular.

10. The vacuum cleaning device according to claim 9, wherein the closure (31) is a circular disk (33) having an inner cutout (34).

11. The vacuum cleaning device according to claim 10, wherein the inner cutout (34) is semi-circular.

12. The vacuum cleaning tool according to claim 10, wherein the second flow connection (30) comprises a window (37) in the partition (19) and the circular disk (33) has a rotational stop (28) interacting with an edge of the window (37).

13. The vacuum cleaning device according to claim 10, wherein the circular disk (33) has a circumferential edge (32) projecting with a partial section thereof from the housing (3).

14. The vacuum cleaning device according to claim 6, further comprising a catch device (26) interacting with the adjustable closure (31).

15. The vacuum cleaning device according to claim 14, wherein the catch device (26) is arranged on the partition (19).

16. The vacuum cleaning device according to claim 15, wherein the closure (31) has a circumferential edge (32) and wherein the catch device (26) acts on the circumferential edge (32).

17. The vacuum cleaning device according to claim 16, wherein the circumferential edge (32) is knurled.

18. The vacuum cleaning device according to claim 1, wherein the housing (3) is comprised of an upper housing half (5) and a lower housing half (4), wherein one of the first and second flow connections (20, 30) is arranged in the upper housing half (5) and the other one of the first and second flow connections (20, 30) is arranged in the lower housing half (4).